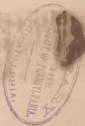


Rheumatism

#1

An Inaugural Essay
For the degree of
Doctor of Medicine
Submitted to the
Examination of the
Provost



The Trustees and
Medical Professors of the
University of Pennsylvania
On the Nineteenth day of April
1810

In the presence of
the Honorable
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Medical Officer of the
University of Pennsylvania
On the 10th day of April
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In the prosecution of this essay I propose to treat
of the different forms of Rheumatism, taught in our
School under the names of Rheumatism, Rhumatisme,
and Rhumatalgia—

Rheumatism is a disease generally affecting
the large joints, particularly those that are most
acted on in the different crises of the body.
It also affects the muscles of the extremities, and is occa-
sionally found to affect other parts more or less con-
nected with such as are primarily attacked. It occurs
at all seasons of the year, but most frequently in
Autumn and Winter; and is more a disease of
cold and variable, than of warm climates.

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after a winter that has been uniformly cold, it often prevails in the spring, and violent inflammatory cases are sometimes met with in the summer. It afflicts persons chiefly in the meridian of life, or at any period between the age of puberty and the fortieth year. Sailors, Soldiers, fishermen and others who are much exposed to violent and irregular exercise, and to great vicissitudes of temperature are most subject to its attacks.

The Causes which concur in the production of Rheumatism, may be divided into the remote, the predisposing, the exciting and the proximate. The most common remote causes of the disease are violent exercise and irregular labour which dispose to it, by inducing debility in the joints and muscles which
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are its ordinary seats. But every thing tending to produce debility in other parts of the body that are allowed to be either primarily or secondarily susceptible of it, may be regarded as a remote cause of the complaint.

The predisposing cause of Rheumatism is debility, either directly or indirectly induced in those parts which it is generally observed to attack. ~

The exciting causes of the disease are the same as those which excite other inflammatory affections; ~~and~~ such as intemperance in eating and drinking, sudden changes of the weather, cold either generally or partially applied to the body, damp air, the continued application of cold water, wet clothes, lying in damp
sheds

and the ordinary state. But many things to be done in a few
days, especially in the part of the day that we shall
have to be with forwardness in some of our business
it may be possible to get a good number of the same
done.

The first thing to be done is to get the
books and accounts in order, and to get the
papers and what is generally known to be correct.
The second thing to be done is to get the
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shuts, sitting or lying on moist grounds, travelling in the
night or being much exposed to the night air: An short
cold and moisture applied in any way so as suddenly
to check perspiration or to produce an undue determi-
nation to the joints, or other debilitated parts. Under
this head may also be enumerated repelled eruptions,
excessive discharges of any kind, and the sudden
stopping of customary or natural evacuations; they
all act by exciting morbid, deranged or unnatural
actions in the system, which have a necessary tendency
to fix themselves upon parts predisposed to disease.
Rheumatism is also sometimes the effect of Scrofula
Lues Venerea, and protracted intermitting or remit-
ting fevers.

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The principal cause of Rheumatism is that irrita-
tion or irregular action on the vessels of the part
or parts affected exhibiting itself in the various phe-
nomena & symptoms of the disease which come next
to be considered. —

The symptoms usually characterising a pa-
tient of acute Rheumatism are heat redness and
tumor of the part affected with a sense of throbbing
and sensibility, and the ordinary signs of inflam-
mation in other parts of the system, such
as a full, tense, frequent and bounding pulse, thirst,
heat restlessness and a sense of extreme anxiety. The
disease usually commences with a full & with
a return of heat and cold alternating with each other.

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The bill which usher in an attack of Malaria, is often very violent and continues in some cases for several hours it is then succeeded by a fever which abates after some time, and during its abatement the patient will often be visited by a gentle perspiration. The urine is sometimes high coloured, depositing a copious sediment after a few days. At the lowest is perfectly clear without any sediment whatever. There never is any severe commonly attended, and is considered excruciating on the slightest motion, manifesting at certain stages of the disease a great disposition to translate itself from joint to joint especially during the night. Towards recovery a gentle & copious perspiration breaks out attended with an abatement or remission of fever ^{and}

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and a partial alteration of pain; and the patient in
some instances during the day finds himself tolerably
easy while free from motion. But generally towards
night the paroxysm returns bringing back all the
symptoms with their usual severity, and the patient's
sufferings are again renewed. This however is not by any
means uniformly the case for the pain in some instances
is mostly acute in the day, or suffers little or no
intermittence.

After these symptoms have continued for some time,
a swelling of the part principally affected becomes
obvious & considerable. The pain after this is not in-
creased, but increases in the slightest degree.

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diminution does not always carry off the pain or save
the joint against a severe attack. The swelling
which takes place is inflammatory Rheumatism
is probably the consequence of an effusion of lymph
or serum from the blood vessels.

Rheumatism differs from Gout in being more contage-
ous, that is in being less liable to affect the stomach
the bowels & even in being attended with more ac-
tive action, it is in being chiefly confined when it
attacks the extremities, to the larger joints. They
appear nevertheless to be nothing but different forms
or modifications of the same disease caused by their
seat & their causes and by the various circumstan-
ces of predisposition which concur to give rise to them.

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Doctor Sydenham describes a *Scorbutic Rheumatism*
which he says was not attended with much fever or
swelling and in which the pains were more transi-
ent, and the symptoms not uniform. Females and of
effeminate constitutions are said to be most liable to the
form of the disease. But Gale. Nott in a note to
the works of Doctor Sydenham observes that ^{it} is a
more common in the Winter Months.

Rheumatism in its common form is seldom
fatal. The inflammation and swelling accompanying
it differs from almost all others, generally terminating
in resolution rarely in suppuration and never in
gangrene. When death occurs it is either in conse-
quence of suppuration - some other morbid
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local affections producing hectic fever or of a translocation
of the disease to more vital parts. When it occurs in
old people it is seldom cured.

In the treatment of acute Rheumatism
we are to be governed by two principal indications: the
first of which is to reduce the fever and inflammatory
action which may be present. the second to alluviate
pain and by proper local applications to reduce the
inflammation and swelling of the part or parts af-
fected.

To answer the first indication, our first
resource is bleeding. Blood should be drawn in
large quantities and the bleeding repeated more or
less frequently according to the grade of life.

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palpitations and hardness of the pulse. Large and repeated bleedings during the first days of this disease, are highly necessary, and for the following reasons; first because they tend to shorten the period of the disease. 2d. They lessen the severity of the pain which attends it. 3d. They prevent the system from wearing itself away by purgative efforts and thereby prevent a predisposition to a second attack. 4th. They prevent those morbid effusions which lay the foundation of rashes and other eruptions between the joints, and thereby prevent lameness and deformity. 5th and lastly. They supersede in a great measure the exhibition of active purges the operation of which is extremely inconvenient and distressing.

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The next remedy to be mentioned under this head is purging. The purges most proper in Rheumatism are those that act slowly and gently on the bowels, such as Sulphur, Cream of Tartar, Castor oil, the neutral salts &c. They give relief in two ways (viz) by removing constipation, and by discharging bile and other acrid substances from the intestines, which are often the means of aggravating the symptoms of the disease.

Antimonials are recommended, but do not promise to be of much service, except when given in small and nauseating doses to excite perspiration.

Another remedy of great importance in the treatment of Rheumatism, is sweating.

Medicines given to excite sweating in this disease should

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should be of the least heating or stimulant kind,
such as Nitre, Tartar Emetic, Spicacuanha, and the lik.
Dover's powder is an excellent medicine in Rheumatism,
and when judiciously administered does great service.
If aided by draughts of warm debilitating drinks
it excites a copious discharge from the skin at the
same time that it lessens the pain and induces sleep
After the lancet has been used liberally Digitalis may
be given with advantage. The following formula*
has been advised. Take of Solution of digitalis from
80 to 100 drops of crude nitre one drachm and of pure
water eight ounces in this to be taken in 24 hours
The patient throughout the whole of his disease ^{should} be
kept cool and quiet of person, and avoid all
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* Dr. Bailey

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To fulfil the second indication a variety of remedies have been recommended. I shall only mention a few of them

Topical bloodletting is often found serviceable when the local inflammation is great, and immediate relief desired. With this view leeches may be applied all over the inflamed part. Cupping and scarification are less eligible, being more painful and more irritating remedies.

After sufficient bleeding has been procured and the pain has become fixed to a particular joint, blisters are highly useful, but afford little or no advantage before. To ease pain Doctor Lidenham

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opium being given with success. Opium except with
a view to mitigate pain, ought never to be given in
the inflammatory stage of Rheumatism, unless it be
combined with some medicine calculated to induce
sweating or a determination to the skin.

Cold must not be used, as in other inflammatory
diseases are proper. The part affected should be kept
cool, the dressings should be thin, and the bed clothes
light or barely sufficient to render the patient com-
fortable. I have seen cold water applied in one instance
with great advantage in acute Rheumatism. It reduces
the inflammation and allays pain, and may be
applied either by ablation or fomentation. In a word
the cure of acute Rheumatism depends upon a
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rigid antiphlogistic plan of treatment. It too, must
should be strictly enforced, and a total abstinence
from animal food, and from all spirituous liquors.

To secure the patient against future at-
tacks, he should be directed to avoid all the remote or
existing causes of the disease, live there occasionally,
and prevent certainties by the occasional use of gentle
opulent medicines. The wearing of flannel next to the
skin should be recommended; also moderate and reg-
ular exercise, the cold bath; and lastly, a change
of climate. - - - - -

I am now to offer a few observations
on Rheumatism, what is more commonly
called Chronic Rheumatism.

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Acute Rheumatism, the patient can sit up and,
at some little pain, can difficultly walk about. The
pulse is sym-bula, or quick, frequent, moderately tense
but small, the disease is not attended with shivering
but a constant fever, and the swelling disappears alto-
gether or is scarcely observable. The pains still continue
though not with their usual violence, but causing
great stiffness and lameness of the joints and subject to
exacerbations at night. They are likewise increased by motion
and the change of the weather: hence patients often
have a premonition of a change about to take place
before it actually happens.

The causes of Rheumatism are the
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same as those preceding acute Rheumatism.

The remedies for this form of Rheumatism are but few and small in number: without them we can make but little impression upon the disease. It is chiefly to derive new & life giving energy to the constitution and state of the system, the process in every instance being our guide. In catarrhs, then, shown to result in the most acute & distressing manner, even a few of tartar. Elix. Blisters, they are to be applied. And as but in the affected part, so immediately as it. I do not recollect having that Blisters even in the joints are much more efficacious than in chronic Rheumatism. The only other place Blisters act. I then use tartar. & Sublimation: & Chemical Exports

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this act by translating motion excitement from the joints to the salivary glands. Without the use of a Salivator we should be much more frequently failed in the cure of Chronic Rheumatism, than we are under a skillful application of this invaluable remedy.

After sufficient depletion, Stimulants and Tonics either internal or external, may be resorted to with advantage and safety. The particular tonics, as well as the quantity and force of Stimulants depending on the state of the disease, will depend on the constitution of the patient, his former habits and his condition at the time they are to be administered.

This form of Rheumatism may also be avoided by avoiding exposure to cold, by ^{chronic}

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occasionally taking a cathartic of sulphur, or some
other mild purge; by wearing flannels next to the
skin, the cold bath, a change of climate &c.

It is generally known that several of these
cases which is to offer a few remarks on Rheumatism.

This arises from an imperfectly cured Rheumatism,
a neglected or protracted Rheumatism. It is usually
attended with a diminished nervous excitability.

The causes of Rheumatism are the same as
those producing acute and chronic Rheumatism.
It is usually attended with lameness but seldom
with a fever. It continues not only for months and
years but frequently during life. The pain is
seldom quite constant in it but occasionally returns.

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retires at its custom and irregular periods. In some
instances after continuing a great while they have
been known to die in the putrid entirely void of
decrease: though they were frequently various and
returned as often, and even the putrid increased to
the last moment of his existence. Persons labouring
with this disease are particularly prone of whom
some^{are} sometimes totally deprived of the use of their
limbs, partially or consequences of an disease.

The remedies for this form of disease
are almost entirely decided themselves into local
and general return and external. I shall briefly
mention each of them as have been most dis-
tinguished for their efficacy, &c. which are most
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If either is wanted as Guaiacum, either the simple or the volatile Tincture, The decoction of myrrour and sassaaparilla Tincture of yoke leaves decoction of Sassa Mustard and pepper. The decoction of the spiritous oil of camphor, oil of amber Camphor, or opium and Camphor combined.

The Water ^{*}Spumosa Bockly ash is both ash
The water is a spontaneous excretion of the ash
has of late been highly extolled in this form of
Rheumatism: but I am not able to say any thing
in its favour from my own observation.

Among the external remedies to be employed
in the treatment of the Rheumatologia the first to
^{*} See General Treatise Vol 2 pag 161 to

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to mentioned is the warm bath, this has the effect of awakening the dormant excitability of the system and thereby preparing it for the successful use of the remedies. When a bath of warm water fails the vapour bath should be tried.

After the system has been raised from stolid and torpid state, the cold bath may succeed the warm; as they may be used alternately. the efficacy of the warm bath will be increased by additions in the water in quantity of table salt.

Frictions by the hand or a flesh brush if gentle and long continued, are of great advantage. Stimulating condiments preparations applied by means of friction have often done good.

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A very good one is made of Opium and carbonate of
Ammonia each one drachm, Camphor ten scruples,
olive oil in power, rub them together, and apply a po-
ster of the ointment twice a day. The reliable liniment
Structure of Camomile paper the spirits of Turpentine, some
applications of mustard and Sassafras have all in
the time been success in this state of the complaint.
Electricity has often succeeded when other remedies
have failed. The patient should always be directed if
he has not been in the habit of wearing it, to put on
flannel, to use exercise and lastly to change his air.
Visiting certain Medicinal springs will often prove
cure in cases of the most obstinate kind and of long
duration, when all other remedies prove abortive -

[Faint, mostly illegible handwriting in cursive script, likely bleed-through from the reverse side of the page.]

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I shall conclude this essay by observing that success in the management of the different states of Phlegmatism, as well as in the management of all other diseases, consists in an eminent degree in timing remedies. There is a time to bleed and a time to withhold the lancet; a time to purge and a time to abstain; a time to sweat and a time to give anodynes; a time to stimulate and a time when stimulants would be improper and pernicious. In a word the ~~course~~ of the disease must depend upon proper remedies in their proper times and places.

In retiring from this university in which I have enjoyed so many important advantages, it is a duty I owe to gratitude as well as to ^{individual}

I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the affairs of the office of the Secretary of the Treasury, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,
Your obedient servant,
J. M. Smith

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individual merit, to offer to the Medical Professors my
 assigned thanks. Of the instruction I have derived from
 their truly valuable lectures, I shall retain an unde-
 -rable remembrance! That each of you Gentlemen, may
 long enjoy in health and vigour that life which has
 been so publicly useful; that the sciences you teach
 may continue to flourish under your fostering
 hands, and that your labours may ultimately be
 crowned with that honor and happiness you all so
 eminently deserve, is the fervent and sincere wish
 of your friend and devoted

A. Muldrow